

In the Claims:

17 (Currently Amended) A ~~thin-wall singulation~~ saw blade for cutting hard materials comprising:

- (a) a ~~plated~~ matrix for encapsulating large abrasive particle diamonds and small abrasive particles diamonds in the matrix;
- (b) said small abrasive particles diamonds being encapsulated inside the ~~thin wall~~-matrix in a high-density concentration;
- (c) the ~~thin-wall singulation~~ saw blade being corrugated with substantially uniform thickness and comprising raised surfaces and lowered surfaces;
- (d) the lowered surfaces being parallel to, and space laterally and longitudinally of, the raised surfaces; and
- (e) transition portions connecting the raised surfaces and the lowered surfaces.

18 (Currently Amended) A ~~thin-wall singulation~~ saw blade as claimed in claim 17, wherein the transition portions are at an angle to the raised surfaces and the lowered surfaces.

19 (Currently Amended) A ~~thin-wall singulation~~ saw blade as claimed in claim 189, wherein the angle is 45 degrees.

20 (Currently Amended) A ~~thin-wall singulation~~ saw blade as claimed in claim 17, wherein the raised portions and the lowered portions are substantially flat.

21 (Currently Amended) A ~~thin-wall singulation~~ saw blade as claimed in claim 173, wherein the small abrasive particles are a different material than the large abrasive

~~particlessaw blade has a concave at the cutting edge and the center of the blade is recessed between two parallel cutting side blades.~~

22 (Currently Amended) A ~~thin wall singulaton~~ saw blade for cutting hard materials, comprising:

- (a) a corrugated shaped blade of substantially uniform thickness comprising a ~~plated~~ matrix material;
- (b) large abrasive particles ~~diamonds~~ encapsulated in the ~~thin~~ matrix material;
- (c) small abrasive particles ~~diamonds~~ in the matrix material between and around said large abrasive particles ~~diamonds~~;
- (d) said small abrasive particles ~~diamonds~~ being encapsulated in higher density by volume than said large abrasive particles ~~diamonds~~;
- (e) the corrugated shaped blade comprising raised surfaces and lowered surfaces parallel to, and spaced laterally and longitudinally of, the raised surfaces;
- (f) transition portions connecting the raised surfaces and the lowered surfaces; and
- (g) the depth of said corrugations being greater than the thickness of said ~~thin~~ wall by a ratio of greater then three to one.

Respectfully submitted,

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On June 15, 2005

By: 